## Ezzat Chan Abdullah

List of Publications by Year in descending order

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114 papers 6,874 citations

44042 48 h-index 80 g-index

116 all docs

116 docs citations

116 times ranked

7417 citing authors

#	Article	IF	Citations
1	The use of bulk density measurements as flowability indicators. Powder Technology, 1999, 102, 151-165.	2.1	389
2	Recent trends in the synthesis of graphene and graphene oxide based nanomaterials for removal of heavy metals — A review. Journal of Industrial and Engineering Chemistry, 2018, 66, 29-44.	2.9	299
3	Synthesis of magnetic biochar from agricultural waste biomass to enhancing route for waste water and polymer application: A review. Renewable and Sustainable Energy Reviews, 2017, 67, 257-276.	8.2	292
4	Removal of Heavy Metals from Wastewater Using Carbon Nanotubes. Separation and Purification Reviews, 2014, 43, 311-338.	2.8	240
5	Applications of graphene and its derivatives as an adsorbent for heavy metal and dye removal: a systematic and comprehensive overview. RSC Advances, 2015, 5, 50392-50420.	1.7	240
6	Characterization of powder flowability using measurement of angle of repose. Particuology: Science and Technology of Particles, 2006, 4, 104-107.	0.4	237
7	A comprehensive review on magnetic carbon nanotubes and carbon nanotube-based buckypaper for removal of heavy metals and dyes. Journal of Hazardous Materials, 2021, 413, 125375.	6.5	223
8	Application potential of carbon nanomaterials in water and wastewater treatment: A review. Journal of the Taiwan Institute of Chemical Engineers, 2017, 72, 116-133.	2.7	220
9	An overview of immobilized enzyme technologies for dye and phenolic removal from wastewater. Journal of Environmental Chemical Engineering, 2019, 7, 102961.	3.3	175
10	An overview on methods for the production of carbon nanotubes. Journal of Industrial and Engineering Chemistry, 2014, 20, 1186-1197.	2.9	160
11	Microwave induced synthesis of magnetic biochar from agricultural biomass for removal of lead and cadmium from wastewater. Journal of Industrial and Engineering Chemistry, 2017, 45, 287-295.	2.9	154
12	Immobilization of cellulase enzyme on functionalized multiwall carbon nanotubes. Journal of Molecular Catalysis B: Enzymatic, 2014, 107, 124-131.	1.8	147
13	Solid matrices for fabrication of magnetic iron oxide nanocomposites: Synthesis, properties, and application for the adsorption of heavy metal ions and dyes. Composites Part B: Engineering, 2019, 162, 538-568.	5.9	145
14	Graphene based nanomaterials for strain sensor application—a review. Journal of Environmental Chemical Engineering, 2020, 8, 103743.	3.3	136
15	Magnetic nanoadsorbents' potential route for heavy metals removal—a review. Environmental Science and Pollution Research, 2020, 27, 24342-24356.	2.7	127
16	An overview of functionalised carbon nanomaterial for organic pollutant removal. Journal of Industrial and Engineering Chemistry, 2018, 67, 175-186.	2.9	104
17	Biodiesel synthesis using natural solid catalyst derived from biomass waste — A review. Journal of Industrial and Engineering Chemistry, 2020, 81, 41-60.	2.9	101
18	Synthesis of palm oil empty fruit bunch magnetic pyrolytic char impregnating with FeCl3 by microwave heating technique. Biomass and Bioenergy, 2014, 61, 265-275.	2.9	99

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19	CFD simulation of fluidized bed reactors for polyolefin production $\hat{a} \in A$ review. Journal of Industrial and Engineering Chemistry, 2014, 20, 3919-3946.	2.9	99
20	Agricultural biomass-derived magnetic adsorbents: Preparation and application for heavy metals removal. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 168-177.	2.7	97
21	Statistical optimization and kinetic studies on removal of Zn2+ using functionalized carbon nanotubes and magnetic biochar. Journal of Environmental Chemical Engineering, 2013, 1, 486-495.	3.3	96
22	An overview of biodiesel production using recyclable biomass and non-biomass derived magnetic catalysts. Journal of Environmental Chemical Engineering, 2019, 7, 103219.	3.3	94
23	Characterisation of dry powders. Powder Technology, 2009, 190, 70-74.	2.1	89
24	Synthesis of CTAB intercalated graphene and its application for the adsorption of AR265 and AO7 dyes from water. Journal of Colloid and Interface Science, 2017, 493, 51-61.	5.0	83
25	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removal—A Review. Environmental Science and Pollution Research, 2020, 27, 43526-43541.	2.7	82
26	A promising route of magnetic based materials for removal of cadmium and methylene blue from waste water. Journal of Environmental Chemical Engineering, 2017, 5, 1447-1455.	3.3	80
27	Effects of TiO2 addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina ceramic composite. Ceramics International, 2015, 41, 3961-3967.	2.3	76
28	Emerging pollutants and their removal using visible-light responsive photocatalysis– A comprehensive review. Journal of Environmental Chemical Engineering, 2021, 9, 106643.	3.3	74
29	Rapid adsorption of toxic Pb(II) ions from aqueous solution using multiwall carbon nanotubes synthesized by microwave chemical vapor deposition technique. Journal of Environmental Sciences, 2016, 45, 143-155.	3.2	72
30	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. Journal of Industrial and Engineering Chemistry, 2021, 104, 362-380.	2.9	72
31	Magnetic palm kernel biochar potential route for phenol removal from wastewater. Environmental Science and Pollution Research, 2019, 26, 35183-35197.	2.7	70
32	Plam oil empty fruit bunch based magnetic biochar composite comparison for synthesis by microwave-assisted and conventional heating. Journal of Analytical and Applied Pyrolysis, 2016, 120, 521-528.	2.6	69
33	Immobilization of Peroxidase on Functionalized MWCNTs-Buckypaper/Polyvinyl alcohol Nanocomposite Membrane. Scientific Reports, 2019, 9, 2215.	1.6	68
34	Modelling of methylene blue adsorption using peroxidase immobilized functionalized Buckypaper/polyvinyl alcohol membrane via ant colony optimization. Environmental Pollution, 2020, 259, 113940.	3.7	68
35	Effect of process parameters for production of microporous magnetic biochar derived from agriculture waste biomass. Microporous and Mesoporous Materials, 2017, 253, 29-39.	2.2	67
36	Comparative study of acid functionalization of carbon nanotube via ultrasonic and reflux mechanism. Journal of Environmental Chemical Engineering, 2018, 6, 5889-5896.	3.3	67

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37	Adsorption of Cu(II) and Ni(II) ions from wastewater onto bentonite and bentonite/GO composite. Environmental Science and Pollution Research, 2020, 27, 33270-33296.	2.7	62
38	A new route of magnetic biochar based polyaniline composites for supercapacitor electrode materials. Journal of Analytical and Applied Pyrolysis, 2016, 121, 240-257.	2.6	61
39	Fabrication of 3D binder-free graphene NiO electrode for highly stable supercapattery. Scientific Reports, 2020, 10, 11214.	1.6	60
40	Modeling and optimization by particle swarm embedded neural network for adsorption of methylene blue by jicama peroxidase immobilized on buckypaper/polyvinyl alcohol membrane. Environmental Research, 2020, 183, 109158.	3.7	60
41	Synthesis of polyvinyl alcohol (PVA) infiltrated MWCNTs buckypaper for strain sensing application. Scientific Reports, 2018, 8, 17295.	1.6	59
42	Carbon nanomaterials based films for strain sensing applicationâ€"A review. Nano Structures Nano Objects, 2019, 18, 100312.	1.9	59
43	Title is missing!. ScienceAsia, 2007, 33, 469.	0.2	59
44	In-situ polymerization of magnetic biochar – polypyrrole composite: A novel application in supercapacitor. Biomass and Bioenergy, 2017, 98, 95-111.	2.9	58
45	Magnetic biochar derived from waste palm kernel shell for biodiesel production via sulfonation. Waste Management, 2020, 118, 626-636.	3.7	58
46	Iron Oxide Nanomaterials for the Removal of Heavy Metals and Dyes From Wastewater., 2019,, 447-472.		55
47	Comparative kinetic study of functionalized carbon nanotubes and magnetic biochar for removal of Cd2+ ions from wastewater. Korean Journal of Chemical Engineering, 2015, 32, 446-457.	1.2	54
48	Removal of dye using peroxidase-immobilized Buckypaper/polyvinyl alcohol membrane in a multi-stage filtration column via RSM and ANFIS. Environmental Science and Pollution Research, 2020, 27, 40121-40134.	2.7	54
49	A comprehensive review on micropollutants removal using carbon nanotubes-based adsorbents and membranes. Journal of Environmental Chemical Engineering, 2021, 9, 106647.	3.3	54
50	Single-route synthesis of magnetic biochar from sugarcane bagasse by microwave-assisted pyrolysis. Materials Letters, 2016, 184, 315-319.	1.3	52
51	Adsorption of heavy metal from industrial wastewater onto low-cost Malaysian kaolin clay–based adsorbent. Environmental Science and Pollution Research, 2020, 27, 13949-13962.	2.7	50
52	Single stage production of carbon nanotubes using microwave technology. Diamond and Related Materials, 2014, 48, 52-59.	1.8	49
53	Microwave sintering of zirconia-toughened alumina (ZTA)-TiO2-Cr2O3 ceramic composite: The effects on microstructure and properties. Journal of Alloys and Compounds, 2017, 722, 458-466.	2.8	47
54	A Review of the Graphene Synthesis Routes and its Applications in Electrochemical Energy Storage. Critical Reviews in Solid State and Materials Sciences, 2020, 45, 339-377.	6.8	47

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55	Removal of Methylene Blue and Orange-G from Waste Water Using Magnetic Biochar. International Journal of Nanoscience, 2015, 14, 1550009.	0.4	46
56	From bamboo leaf to aerogel: Preparation of water glass as a precursor. Journal of Non-Crystalline Solids, 2014, 386, 76-84.	1.5	45
57	Dodecyl sulfate chain anchored mesoporous graphene: Synthesis and application to sequester heavy metal ions from aqueous phase. Chemical Engineering Journal, 2016, 304, 431-439.	6.6	38
58	Magnetic nanocomposites for sustainable water purificationâ€"a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 19563-19588.	2.7	38
59	Adsorption of chromium (VI) on functionalized and non-functionalized carbon nanotubes. Korean Journal of Chemical Engineering, 2014, 31, 1582-1591.	1.2	36
60	Microwave assisted multiwall carbon nanotubes enhancing Cd(II) adsorption capacity in aqueous media. Journal of Industrial and Engineering Chemistry, 2015, 24, 24-33.	2.9	34
61	Low cost and efficient synthesis of magnetic iron oxide/activated sericite nanocomposites for rapid removal of methylene blue and crystal violet dyes. Materials Characterization, 2020, 163, 110275.	1.9	33
62	Functionalized multi-walled carbon nanotubes and hydroxyapatite nanorods reinforced with polypropylene for biomedical application. Scientific Reports, 2021, 11, 843.	1.6	33
63	Novel microwave-assisted multiwall carbon nanotubes enhancing Cu (II) adsorption capacity in water. Journal of the Taiwan Institute of Chemical Engineers, 2015, 53, 140-152.	2.7	32
64	Microwave-assisted synthesis of multi-walled carbon nanotubes for enhanced removal of Zn(II) from wastewater. Research on Chemical Intermediates, 2016, 42, 3257-3281.	1.3	32
65	A facile and green synthetic approach toward fabrication of starch-stabilized magnetite nanoparticles. Chinese Chemical Letters, 2017, 28, 1590-1596.	4.8	30
66	Surface charge on chitosan/cellulose nanowhiskers composite via functionalized and untreated carbon nanotube. Arabian Journal of Chemistry, 2021, 14, 103022.	2.3	29
67	Facile and green preparation of magnetite/zeolite nanocomposites for energy application in a single-step procedure. Journal of Alloys and Compounds, 2017, 719, 218-226.	2.8	29
68	Insight into immobilization efficiency of Lipase enzyme as a biocatalyst on the graphene oxide for adsorption of Azo dyes from industrial wastewater effluent. Journal of Molecular Liquids, 2022, 354, 118849.	2.3	29
69	Effects of Cr 2 O 3 addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina added with TiO 2 (ZTA–TiO 2 ) ceramic composite. International Journal of Refractory Metals and Hard Materials, 2016, 61, 40-45.	1.7	27
70	An Overview of Magnetic Material: Preparation and Adsorption Removal of Heavy Metals from Wastewater. Nanotechnology in the Life Sciences, 2019, , 131-159.	0.4	25
71	Carbon and polymer-based magnetic nanocomposites for oil-spill remediation—a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 54477-54496.	2.7	24
72	Characterisation of bio-silica synthesised from cogon grass (Imperata cylindrica). Powder Technology, 2014, 254, 206-213.	2.1	23

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73	An improvement to the basic energy balance model for urban thermal environment analysis. Energy and Buildings, 1990, 14, 143-152.	3.1	22
74	Synthesis of organic phase change materials by using carbon nanotubes as filler material. Nano Structures Nano Objects, 2019, 19, 100361.	1.9	22
75	The effects of CeO2 addition on the physical and microstructural properties of ZTA-TiO2 ceramics composite. Journal of Alloys and Compounds, 2019, 773, 27-33.	2.8	21
76	Graphene/PVA buckypaper for strain sensing application. Scientific Reports, 2020, 10, 20106.	1.6	20
77	Optimisation of NiO electrodeposition on 3D graphene electrode for electrochemical energy storage using response surface methodology. Journal of Electroanalytical Chemistry, 2021, 882, 114992.	1.9	19
78	ADSORPTION AND KINETIC STUDY ON <font>Sn</font> <sup>2+</sup> REMOVAL USING MODIFIED CARBON NANOTUBE AND MAGNETIC BIOCHAR. International Journal of Nanoscience, 2013, 12, 1350044.	0.4	18
79	Measuring powder flowability with a modified Warren Spring cohesion tester. Particuology, 2011, 9, 148-154.	2.0	17
80	Modelling and optimization for methylene blue adsorption using graphene oxide/chitosan composites via artificial neural network-particle swarm optimization. Materials Today Chemistry, 2022, 24, 100946.	1.7	17
81	Solubility of Isoniazid in Various Organic Solvents from (301 to 313) K. Journal of Chemical & Chemical & Engineering Data, 2008, 53, 1962-1964.	1.0	16
82	Solubility of Isoniazid in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2010, 55, 2306-2309.	1.0	16
83	Facile synthesis of a binary composite from watermelon rind using response surface methodology for supercapacitor electrode material. Journal of Energy Storage, 2022, 49, 104147.	3.9	16
84	Electrocatalytic activity of starch/Fe3O4/zeolite bionanocomposite for oxygen reduction reaction. Arabian Journal of Chemistry, 2020, 13, 1297-1308.	2.3	13
85	Surface force arising from Adsorbed graphene oxide in kaolinite suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 592, 124592.	2.3	12
86	Adsorptive Removal of Phenol from Aqueous Solution by Using Carbon Nanotubes and Magnetic BioChar. NanoWorld Journal, 2017, 03, 32-37.	0.8	12
87	Pilot study of in-line continuous flocculation water treatment plant. Journal of Environmental Chemical Engineering, 2018, 6, 7185-7191.	3.3	11
88	Physicochemical properties of bamboo leaf aerogels synthesized via different modes of gelation. Applied Surface Science, 2014, 301, 161-172.	3.1	10
89	Functionalized carbon nanomaterials for wastewater treatment., 2019,, 283-311.		10
90	Novel fabrication of functionalized graphene oxide via magnetite and 1-butyl-3-methylimidazolium tetrafluoroborate. Nano Structures Nano Objects, 2018, 16, 403-411.	1.9	9

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91	Immobilization of Lipase Enzyme Carbon Nanotubes via Adsorption. IOP Conference Series: Materials Science and Engineering, 0, 495, 012055.	0.3	9
92	Optimising the fabrication of 3D binder-free graphene electrode for electrochemical energy storage application. Surface and Coatings Technology, 2021, 413, 127080.	2.2	9
93	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. International Journal of Nanoscience, 2018, 17, 1850002.	0.4	8
94	Effect of Titania (TiO <sub>2</sub> ) Addition to Zirconia Toughened Alumina (ZTA) Phases, Hardness and Microstructure. Advanced Materials Research, 0, 1087, 293-298.	0.3	6
95	Effect of Cr <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Addition on the Physical Properties of Zirconia Toughened Alumina. Materials Science Forum, 0, 840, 34-38.	0.3	6
96	Adsorption Isotherm and Thermodynamics Studies of Zn(II) on Functionalized and Non-Functionalized Carbon Nanotubes. Advanced Science, Engineering and Medicine, 2014, 6, 974-984.	0.3	6
97	Encapsulation Method for CaCO3 Nanoparticles. Journal of Applied Sciences, 2007, 7, 2046-2050.	0.1	6
98	An Approach to Utilize Crust Leather Scrapes, Dumped into the Land, for the Production of Environmental Friendly Leather Composite. Engineering Journal, 2013, 17, 17-24.	0.5	6
99	Single-route synthesis of binary metal oxide loaded coconut shell and watermelon rind biochar: Characterizations and cyclic voltammetry analysis. Biomass Conversion and Biorefinery, 2023, 13, 2279-2291.	2.9	5
100	Effects of ultrasound in coating nanoâ€precipitated CaCO <sub>3</sub> with stearic acid. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 807-813.	0.8	4
101	Enhancement the Dissolution Rate and Solubility of Poorly Soluble Drugs: Review. Advanced Materials Research, 0, 701, 234-238.	0.3	4
102	Mass Production of Carbon Nanofibers Using Microwave Technology. Journal of Nanoscience and Nanotechnology, 2015, 15, 9571-9577.	0.9	4
103	Determination of kinetic parameters for thermal decomposition of bamboo leaf to extract bio-silica. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 3249-3254.	1.2	4
104	Multiwall carbon nanotube promising route for removal of chromium from wastewater via batch column mechanism. IOP Conference Series: Materials Science and Engineering, 0, 495, 012061.	0.3	4
105	Characterization of crystallized struvite on wastewater treatment equipment: Prospects for crystal fertilizer production., 0, 113, 205-212.		4
106	Microwave Assisted Carbon Nanofibers for Removal of Zinc and Copper from Waste Water. Journal of Nanoscience and Nanotechnology, 2017, 17, 1847-1856.	0.9	3
107	Isoniazid Active Pharmaceutical Ingredient in Nano Size Using Ultra Rapid Freezing. Nanoscience and Nanotechnology Letters, 2013, 5, 593-599.	0.4	2
108	Bamboo Leaf Aerogel Opacified with Activated Carbon. Transactions of the Indian Ceramic Society, 2016, 75, 175-180.	0.4	2

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109	Importance of Nanomaterials in Engineering Application. Engineering Materials, 2021, , 1-20.	0.3	2
110	A SILICON GERMANIUM GRADED JUNCTIONLESS TRANSISTOR WITH LOW OFF CURRENT. International Journal of Nanoscience, 2013, 12, 1350043.	0.4	1
111	Effect of Titania and Magnesia on the Physical Properties of Zirconia Toughened Alumina. Materials Science Forum, 0, 840, 82-86.	0.3	1
112	Storage Conditions and Particle Size Effects on Powder Cohesion Index Using Stable Micro System. Advanced Materials Research, 0, 701, 415-419.	0.3	0
113	Thermal Insulative Performance of Bamboo Leaf Aerogel Opacified Using Activated Carbon Compared with Carbon Black. Advanced Materials Research, 2014, 941-944, 2482-2485.	0.3	0
114	Synthesis of magnetic biochar from Garcinia Mangostana peel using muffle furnace for adsorption of Zn2 ions from aqueous solution. , $2015$ , , .		0